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cgctcttacc tagtagaggt tgagtgaatt tcttgacttg tttctcctat tggtgtatct 60

LAS JISUBCLAS

DRAFTSMAN

JUL 2 5 2002

cttaaaatat taaattcaaa atcaaagtat atattttaca atg aag tct tct ttc Met Lys Ser Ser Phe 1 5

ccc aag ttt gta ttt tct aca ttt gct att ttc cct ttg tct atg att 163 Pro Lys Phe Val Phe Ser Thr Phe Ala Ile Phe Pro Leu Ser Met Ile 10 15 20

gct acc gag aca gtt ttg gat tca agt gcg agt ttc gat ggg aat aaa 211 Ala Thr Glu Thr Val Leu Asp Ser Ser Ala Ser Phe Asp Gly Asn Lys 25

aat ggt aat ttt tca gtt cgt gag agt cag gaa gat gct gga act acc 259 Asn Gly Asn Phe Ser Val Arg Glu Ser Gln Glu Asp Ala Gly Thr Thr 40 45 50

tac cta ttt aag gga aat gtc act cta gaa aat att cct gga aca ggc 307 Tyr Leu Phe Lys Gly Asn Val Thr Leu Glu Asn Ile Pro Gly Thr Gly 55 65

aca gca atc aca aaa agc tgt ttt aac aac act aag ggc gat ttg act Thr Ala Ile Thr Lys Ser Cys Phe Asn Asn Thr Lys Gly Asp Leu Thr 70 75 80 85

FIG. 1A

U.S.S.N.: 09428, 122
Title: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND USES
THEREOF
Docker No.: 19721-007

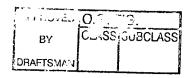
FIG. 1A

JUL 3 1 2002

# TECH CENTER 1600/2900

					\		~ \\	<i>'</i>								
ttc	aca	ggt	aac	999	aac	ATENT	& Ca	ttg	ttc	caa	acg	gtg	gat	gca	999	403
Phe	Thr	Gly	Asn	Gly	Asn	Ser	Leu	Leu	Phe	Gln	Thr	Val	Asp	Ala	Gly	
				90					95					100		
act	gta	gca	999	gct	gct	gtt	aac	agc	agc	gtg	gta	gat	aaa	tct	acc	451
														Ser		
			105					110				_	115			
acg	ttt	ata	999	ttt	tct	tcg	cta	tct	ttt	att	qcq	tct	cct	gga	agt	499
														Gly	_	
		120					125					13.0		1		
														•		
tcq	ata	act	acc	ggc	aaa	gga	acc	att	age	tac	tct	aco	aat	agc	tta	547
														Ser		347
	135				-1	140			501	cyc	145	1111	Cly	501	Бец	
											113					
agt.	tta	aca	aaa	aat	atc	agt	tta	ctc	ttc	200	222	220		tca	200	F.0.5
														Ser	_	595
150			210		155	DCI	DC u	ьси	rne	160		ASII	PHE	361		•
250					133					100					165	
aat	22t	aaa	aat	aat	250	200	~~~				•					
														999		643
мър	ASII	СТУ	GIY		116	ini	Ата	гуз		Leu	Ser	Leu	Thr	Gly	Thr	
				170					175					180		
	_4 .															
														ggc		691
Thr	Met	Ser		Leu	Phe	Ser	Glu	Asn	Thr	Ser	Ser	Lys	Lys	Gly	Gly	
			185					190					195		•	-7

FIG. 1B



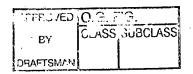




							`	CATE	MT & TP	AUS						,
gcc	att	cag	act	tcc	gat	gcc	ctt	acc	att	act	gga	aac	caa	ggg	gaa	739
Ala	Ile	Gln	Thr	Ser	Asp	Ala	Leu	Thr	Ile	Thr	Gly	Asn	Gln	Gly	Glu	
		200					205					210				
		,														
gtc	tct	ttt	tct	gac	aat	act	tct	tcg	gat	tct	gga	gct	gca	att	ttt	787
Val	Ser	Phe	Ser	Asp	Asn	Thr	Ser	Ser	Asp	Ser	Gly	Ala	Ala	Ile	Phe	
	215					220					225					
				•												
aċa	gaa	gcc	tcg	gtg	act	att	tct	aat	aat	gct	aaa	gtt	tcc	ttt	att	835
Thr	Glu	Ala	Ser	Val	Thr	Ile	Ser	Asn	Asn	Ala	Lys	Val	Ser	Phe	Ile	
230					235					240				,	245	
gac	aat	aag	gtc	aca	gga	gcg	agc	tcc	tca	aca	acg	999	gat	atg	tca	883
Asp	Asn	Lys	Val	Thr	Gly	Ala	Ser	Ser	Ser	Thr	Thr	Gly	Asp	Met	Ser	
				250					255					260		
gga	ggt	gct	atc	tgt	gct	tat	aaa	act	agt	aca	gat	act	aag	gtc	acc	931
Gly	Gly	Ala	Ile	Cys	Ala	Tyr	Lys	Thr	Ser	Thr	Asp	Thr	Lys	Val	Thr	
			265					270					275			
ctc	act	gga	aat	cag	atg	tta	ctc	ttc	agc	aac	aat	aca	tcq	aca	aca	979
Leu	Thr	Gly	Asn	Gln	Met	Leu	Leu	Phe	Ser	Asn	Asn	Thr	Ser	Thr	Thr	
		280					285					290				
gca	gga	gga	gct	atc	tat	qta	aaa	aaa	ctc	gaa	cta	qct	tcc	gga	gga	1027
	Gly													,		
	295				- 4 -	300	_1 -	-1-2			305	, . <b></b> .		1		<del></del>
											200				-	-,

#### FIG. 1C

Sheet 3 of 21 FIG. 1C
Inventors: Murdin et al.
U.S. S.N.: 0942S, 122
Title: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND USES
THEREOF
Docket No.: 19721-007







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#### TECH CENTER 1600/2900

									<b>ATENT</b>	& JRA		TE	CH C	ENIC	:K 160	0/2500
ctt	acc	cta	tto	agt	aga	aat	agt	gto	aat	gga	ggt	aca	gct	cct	aaa	1075
Leu	Thr	Leu	Ph€	Ser	Arg	J Asr	ı Ser	. Val	Asn	Gly	gl)	/ Thr	Ala	Pro	Lys	
310					315					320					325	
ggt	gga	gcc	ata	gct	ato	gaa	gat	agt	999	gaa	tte	, agt	tta	tco	gcc	1123
Gly	Gly	Ala	Ile	Ala	Ile	Glu	Asp	Ser	Gly	Glu	Lev	Ser	Leu	Ser	Ala	
				330		,			335					340		
gat	agt	ggt	gac	att	gtc	ttt	tta	999	aat	aca	gto	act	tct	act	act	1171
												Thr				11/1
			345					350					355			
cct	999	acg	aat	aga	agt	agt	atc	gaċ	tta	gga	acq	agt	gca	aag	ato	1219
												Ser				1215
		360					365	-		•		370		275	1100	
												•				
aca	gct	ttg	cgt	ťct	gct	gct	ggt	aga	qcc	atc	tac	ttc	tat	aat	ccc	1267
												Phe				1207
	375					380	_	J			385		-1-	Tip	110	
ata	act	aca	gga	tca	tcc	aca	aca	att	aca	gat	atc	tta	222	att	226	1215
												Leu				1315
390			_		395		<b>_</b>			400	vai	Dea .	цу́г	vaı		
										700					405	
gaq	act	cca	gca	gat	tet	acs	cta	caa	+-+	200	~~-	aac				
																1363
		- ~ 0	• • • • • • • • • • • • • • • • • • •		261	wiq	neu	GII		Tnr	GIY	Asn	Ile	Ile	Phe	
				410					415					420		-21

#### FIG. 1D





								V	TENT 8	TRADE	,					JU/29U <b>U</b>
aca	gga	gaa	aag	tta	tca	gag	aca	gag	gcc	gca	gat	tct	aaa	aat	ctt	1411
Thr	Gly	Glu	Lys	Leu	Ser	Glu	Thr	Glu	Ala	Ala	Asp	Ser	Lys	Asn	Leu	
			425					430					435			
act	tcg	aag	cta	cta	cag	cct	gta	act	ctt	tca	gga	ggt	act	cta	tct	1459
								Thr								
		440					445				-	450	_			
tta	aaa	cat	ααa	ata	act	cta	cad	act	cac		tta	205				
								Thr							_	1507
	455		O <sub>1</sub>	var	AIII.		GIII	1111	GIII	Ala		Thr	GIn	Gin	Ala	
	433					460					465					
							- :	-		. 1						
								gga								1555
Asp	Ser	Arg	Leu	Glu	Met	Asp	Val	Gly	Thr	Thr	Leu	Glu	Pro	Ala	Asp	
470					475					480					485	-
act	agc	acc	ata	aac	aat	ttg	gtc	att	aac	atc	agt	tct	ata	gac	ggt	1603
Thr	Ser	Thr	Ile	Asn	Asn	Leu	Val	Ile	Asn	Ile	Ser	Ser	Ile	Asp	Gly	
				490					495					500		
gca	aag	aag	gca	aaa	ata	gaa	acc	aaa	gct	acq	tca	aaa	aat	cta	act	1651
								Lys								
			505	-				510				_, _	515	Deu	****	
			. =										213			
tta	tct	uu =	acc	ato	ac+	++-	++~		·							
								gac								1699
neu	ser		rnr	тте	Thr	ьеи		Asp	Pro	Thr	Gly	Thr	Phe	Tyr	Glu	
		520					525					530				-77

FIG. 1E

aat cat agt tta aga aat cct ca gac atc tta gag ctc aaa 1747 Asn His Ser Leu Arg Asn Pro Gln Ser Tyr Asp Ile Leu Glu Leu Lys 535 540 545

get tet gga act gta aca age ace gea gtg act cea gat eet ata atg 1795 Ala Ser Gly Thr Val Thr Ser Thr Ala Val Thr Pro Asp Pro Ile Met 550 555 560

ggt gag aaa ttc cat tac ggc tat cag gga act tgg ggc cca att gtt .. Gly Glu Lys Phe His Tyr Gly Tyr Gln Gly Thr Trp Gly Pro Ile Val 570. 575 580

tgg ggg aca ggg gct tct acg act gca acc ttc aac tgg act aaa act Trp Gly Thr Gly Ala Ser Thr Thr Ala Thr Phe Asn Trp Thr Lys Thr 585 590 595

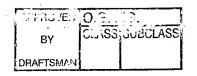
ggc tat att cct aat ccc gag cgt atc ggc tct tta gtc cct aat agc 1939 Gly Tyr Ile Pro Asn Pro Glu Arg Ile Gly Ser Leu Val Pro Asn Ser 600 605 610

tta tgg aat gca ttt ata gat att agc tct ctc cat tat ctt atg gag Leu Trp Asn Ala Phe Ile Asp Ile Ser Ser Leu His Tyr Leu Met Glu 615 620 625

act gca aac gaa ggg ttg cag gga gac cgt gct ttt tgg tgt gct gga Thr Ala Asn Glu Gly Leu Gln Gly Asp Arg Ala Phe Trp Cys Ala Gly 630 635 640 645

FIG. 1F

FIG. 1F





								\	Mari	MT&TP							,
	tta	tct	aac	ttc	ttc	cat	aag	gat	agt	aca	aaa	aca	cga	cgc	999	ttt	2083
	Leu	Ser	Asn	Phe	Phe	His	Lys	Asp	Ser	Thr	Lys	Thr	Arg	Arg	Gly	Phe	
					650					655					660		
	cgc	cat	ttg	agt	ggc	ggt	tat	gtc	ata	gga	gga	aac	cta	cat	act	tgt	2131
	Arg	His	Leu	Ser	Gly	Gly	Tyr	Val	Ile	Gly	Gly	Asn	Leu	His	Thr	Cys	
				665					670					675			
														,			
	tca	gat	aag	att	ctt	agt.	gct	gca	ttt	tgt	cag	ctc	ttt	gga	aga	gat	2179
,	Ser	Asp	Lys	Ile	Leu	Ser	Ala	Ala	Phe	Cys	Gln	Leu	Phe	Gly	Arg	Asp	
	•		680					685					690				
								_===								o -	
	aga	gac	tac	ttt	gta	gct	aag	aat	caa	ggt	aca	gtc	tac	gga	gga	act	2227
	Arg	Asp	Tyr	Phe	Val	Ala	Lys	Asn	Gln	Gly	Thr	Val	Tyr	Gly	Gly	Thr	-
		695					700					705					
	ctc	tat	tac	cag	cac	aac	gaa	acc	tat	atc	tct	ctt	cct	tgc	aaa	cta	2275
	Leu	Tyr	Tyr	Gln	His	Asn	Glu	Thr	Tyr	Ile	Ser	Leu	Pro	Cys	Lys	Leu	
	710					715					720					725	
	cgg	cct	tgt	tcg	ttg	tct	tat	gtt	cct	aca	gag	att	cct	gtt	ctc	ttt	2323
	Arg	Pro	Cys	Ser	Leu	Ser	Tyr	Val	Pro	Thr	Glu	Ile	Pro	Val	Leu	Phe	
					730					735					740		
	tca	gga	aac	ctt	agc	tac	acc	cat	acg	gat	aac	gat	ctg	aaa	acc	aag	2371
	Q	<b>a</b> 1	3	T			m1	*** -	ml	3			*	<b>*</b>	ml.	<b>T</b>	

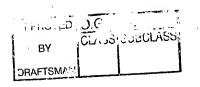
#### FIG. 1G

Ser Gly Asn Leu Ser Tyr Thr His Thr Asp Asn Asp Leu Lys Thr Lys

750

745

755



855





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tat aca aca tat cct act gtt aaa gga agc tgg ggg aat gat agt ttc Tyr Thr Thr Tyr Pro Thr Val Lys Gly Ser Trp Gly Asn Asp Ser Phe 760 765 770 gct tta gaa ttc ggt gga aga gct ccg att tgc tta gat gaa agt gct 2467 Ala Leu Glu Phe Gly Gly Arg Ala Pro Ile Cys Leu Asp Glu Ser Ala 775 780 785 cta ttt gag cag tac atg ccc ttc atg aaa ttg cag ttt gtc tat gca 2515 " Leu Phe Glu Gln Tyr Met Pro Phe Met Lys Leu Gln Phe Val Tyr Ala 790 795 800 805 cat cag gaa ggt ttt aaa gaa cag gga aca gaa gct cgt gaa ttt gga 2563 His Gln Glu Gly Phe Lys Glu Gln Gly Thr Glu Ala Arg Glu Phe Gly 810 815 820 agt age egt ett gtg aat ett gee tta eet ate ggg ate ega tit gat 2611 Ser Ser Arg Leu Val Asn Leu Ala Leu Pro Ile Gly Ile Arg Phe Asp 825 830 835 aag gaa tca gac tgc caa gat gca acg tac aat cta act ctt ggt tat 2659 Lys Glu Ser Asp Cys Gln Asp Ala Thr Tyr Asn Leu Thr Leu Gly Tyr 840 845 850 act gtg gat ctt gtt cgt agt aac ccc gac tgt acg aca aca ctg cga Thr Val Asp Leu Val Arg Ser Asn Pro Asp Cys Thr Thr Thr Leu Arg

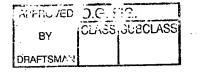
#### FIG. 1H

865

860

FIG. 1H ile: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND USES

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#### **TECH CENTER 1600/2900**

att age ggt gat tet tgg aaa ace ti acg aat ttg gca aga caa Ile Ser Gly Asp Ser Trp Lys Thr Phe Gly Thr Asn Leu Ala Arg Gln 870 875 880 885

gct tta gtc ctt cgt gca ggg aac cat ttt tgc ttt aac tca aat ttt Ala Leu Val Leu Arg Ala Gly Asn His Phe Cys Phe Asn Ser Asn Phe 890 895 900

gaa gcc ttt agc caa ttt tct ttt gaa ttg cgt ggg tca tct cgc aat 2851 " Glu Ala Phe Ser Gln Phe Ser Phe Glu Leu Arg Gly Ser Ser Arg Asn 905 910 915

tac aat gta gac tta gga gca aaa tac caa ttc taa tgcgttagct 2897 Tyr Asn Val Asp Leu Gly Ala Lys Tyr Gln Phe 920

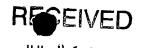
ttggtaaaga gctccataca tcgaagggaa aagagctttt aagatttctt gaaggctctt 2957 ttcgatttcg atttccattt tagtgttttg ctaaaacact ttc 3000

FIG. 1I

Sheet 9 of 21 FIG. 11
Inventors: Murdin et al.
U.S.S.N.: 09428,122
Title: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND USES
THEREOP
Docket No.: 19721-007

APPROVED O.G. FIG. CLASS SUECLASS BY DRAFTSMA\*





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# TECH CENTER 1600/2900

	1	751	150	)1	2251	3000
				·		
enzyme						·
AccB7I	!					
AccI	1				!!	!!
AccII					!	
AccIII			.!	TE-17.		
AciI		*_!!	!!	!	*	!
AclNI	1	<u> </u>		7,4,534		
AclWI			**	<u> </u>		!!!
AcsI	!!			!!	!	_!!
AfaI	1	!!	_!!		!!	!!
AluI	!_	!!_!!_!_	*!!!!	_!_!!*_	!!!!!	_!!*!
Alw21I	]	!!	Leves *2	!	!	!!
Alw26I	!!	!!	!!!		·!	
AlwI			**	!		!!!
AlwNI		*	!			
Ama87I				!		
ApaI		<del></del>		!		
ApoI	[!!			!	·!	!!!
Asp700I	!!					!
AspHI		!!		!	!	!!
AspI	l	<u> </u>	!		·····	
AspS9I				!*		
AsuHPI		!!!!	!	!		!
AvaI				!		
AvaII				!		

FIG. 2A

Sheet 10 of 21 FIG. 2A
Inventors: Murdin et al.
U.S. S.N.: 09/428, 122
Title: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND USES
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	TECH CENTER 1600/2900
BamHI	- I TEMT & TEMPS
BanII	!!
BbsI	_!
Bbv12I	!!
BbvI	
BcgIB	!!
BcgIC	<u> </u>
BfaI	! <u> </u>
BfmI	!!!!
Bme18I	
BmyI	!! !!-
BpiI	<u> !</u>
BpmI	!!!
Bpul4I	!!
BpuAI	_!!
BsaBI	!
BsaI	!
BsaJI	!!!
BsaMI	!!
BsaWI	!
Bsc4I	!*_!!
BscBI	!!!* <u>*_*</u> !!
BscCI	<u> </u>
Bsel18I	!
BselI	<u> </u>
Bse8I	!!
BseAI	!!

APPROVED BY DRAFTSMAN

BseDI

FIG. 2B

TAY ROVED	O.G. F	1 <u>G</u> .	
BY	CLASS	SUBCLASS	
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BseNI	* TECH CENTER 1600/29	900
BseRI		
BsgI		
Bsh1236I	!	
Bsh1365I		
BsiBI	!	
BsiCI	!	
BsiHKAI	!!	
BsiLI	!!	
BsiMI	!	
BsiSI	!!	
BsiYI	!*_!	
BsiZI	!	
BslI	[!*_!	
BsmAI	!**	
BsmBI	· · · · · · · · · · · · · · · · · · ·	
BsmFI	<u>                                     </u>	
BsmI	<u> </u>	
Bsp119I	!!	
Bsp1286I	<u> </u>	
Bsp13I	!!	
BspEI	!	
BspHI	!	
BspLI	!!!!!	
BspMI	<u> </u>	
BsrBRI	·	
BsrFI	!	
BsrI		

FIG. 2C

Sheet 12 of 21 FIG. 2C
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BY CLASS SUBCLASS



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BsrSI	1	2900
BssAI		
BssSI	!!	
BssT1I	!	
Bst1107I	!!!	
Bst2BI	!!	
Bst2UI	<u> </u>	
Bst71I	*_!!!	
BstBI	!!	
BstDEI	!!!!*!!!	
BstEII	<u> </u>	
BstHPI	!	
BstNSI	!	
BstOI	!!!	
BstPI		
BstSFI	<u>                                     </u>	
BstUI	!!	
BstX2I	!!!!	
BstXI	<u> </u>	
BstYI	<u>!</u> !!	
BstZ17I	!	
Bsu6I	!!	
Cac8I	· · · · · · · · · · · · · · · · · · ·	
CbiI	!	
Cfr10I		
Cfr13I	!*	
Csp45I	<u> </u>	
DdeI	<u>                                     </u>	

FIG. 2D

1	"CETICVED	C.G.F	!G.
	ву	CLASS	SUBCLASS
	DRAFTSMAN		

/YE	JC60	
OIL	25 7001 E	
PAT	ENT & TRADES	į

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		PATENT & TRADE	τr	-CH CENTE	R 1600/2900
DpnI  _		*	·!	1	
DraI  _		!		!	
DraII  _			_!		
DrdI  _	!!		<del></del> -		
DseDI   <u>·</u>					
Eam1104I	!!!		!_!_	!	
EarI  _	!!!		!_!_!	!	
Eco130I  _					
Eco24I  _	!!	!	!	!	!_
Eco31I			! <u></u> !		
Eco47I  _		!_			
Eco57I  _	!!!!!!				
Eco88I			!		
Eco91i  _	!!				
EcoNI   !_		, s -			
Eco0651	!!				
EcoRI				!	
EcoRII  _	!!	!			
EcoT14I	!!		774		
EcoT22I  _			!		
EcoT381	!		!	_!	!_
ErhI  _	!				
Esp1396I	!!				
Esp3I	!!	!			
FauI	!		!	_	
Fnu4HT	* 1 1	1 1	,		1

FIG. 2E

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Inventors: Murdin et al.
U.S.S.N.: 09/428, 122
Title: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND USES
THEREOF
Docket No.: 19721-007

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	FokI	TEMT & TOP TOP	ECH CENTER 1600/2900
	FriOI	!!!!	!_1 1000/2900
	Fsp4HI	*_!!!!	
•	GsuI  _	!!	
	HaeIII	!!	·
	HapII	!!	
	HgaI	!!!!	
	HgiEI  _	<u> </u>	
	HindII	!	
	HindIII	!	!!
	HinfI  _	!!	!!_!
	HpaI	!!	·
	HpaII _	!!	· {
	HphI  _	!!_!!	!
. 18 44	Hsp92II	<u>*</u>	
	ItaI  _	*!!!!!!!!!!!!!!	
	Kpn2I  _	! <u></u>	· · · · · · · · · · · · · · · · · · ·
	Ksp632I  _	!!!!!!!!!	
	Kz09I  _	*!!	_!!
	LspI  _	!	
	MaeI !	!*	
	MaeII  _	!!	_!
	MaeIII  _	!_!!!_!!***	_!
	MamI _		
	MboI  _	*!!!	11 1

DRAFTSMAN

MboII

FIG. 2F

BY CLASSIGUE BRAFTSMAN	JUL 2 5 7002  TECH CENTER 1600/2900
MfeI	
MflI	! !! !!
MnlI	! *! *! *_!!! _! _!! _! _!!
Mph1103I	!
MroI	!
MroXI	<u> </u>
MseI	_*!_!_!!*_!!!!!!!!
MslI	<u> </u>
MspA1I	!!
MspR9I	<u>!!</u>
MunI	!
Mva1269I	<u> </u>
MvnI	<u> </u>
MwoI	!!!_!_!_!_!_!_!!!!!_
NlaIII	
NlaIV	<u>                                     </u>
NsiI	!!
NspBII	!
NspI	!
VqsN	!!
PalI	<u>                                     </u>
PflMI	!
PleI	!
Ppu10I	!
Psp124BI	<u>                                     </u>
PspEI	!
PspN4I	<u>                                     </u>

FIG. 2G

BY CLASS SUBCLASS		RECEIVED JUL 3 1 2002
	JUL 2 5 2002 E	
PstI		<b>TECH CENTER 1600/2900</b>
RcaI	TEMI & THE	
RsaI		
SacI	<del></del>	_!!
SapI		!!
Sau96I	· · · · · · · · · · · · · · · · · · ·	
ScrFI		
SduI	! !!!	!! !
SfaNI	1 1 1	······································
SfcI		
SfuI		·
SpeI	!	
Sse9I		11 11**1
SspI	_!!	
StyI		
TaiI	!!	!!
TaqI	!!!!!!_!_!_!	!*
TfiI	1111	_!_!_!
ThaI		!
TrulI	_*!_!_!!*!!!	!!!!
· Tru9I	_*!_!_!!*!*!!!	!!!!
TscI	!!!!	!l
TseI	*_!!!	!
Tsp45I	!!!! <u></u> !!	
Tsp509I	!!!!!!!	!! <u>_!</u> _!!**! <u></u>
TspEI	! !	!!_!_!!**!
TspRI	!!	!
Tth111I	!!	]
Van91I	!!	
XbaI	[!!!	
XcmI	!_!_!_	
XhoII	· · · · · · · · · · · · · · · · · · ·	!!
XmnI	!	! <u></u>
Zsp2I	!!	

FIG. 2H

APPROVED C.G. FIG. CLASS SUBCLASS BY DRAFTSMAR



#### **RECEIVED**

JUL 3 1 2002

TECH CENTER 1600/2900

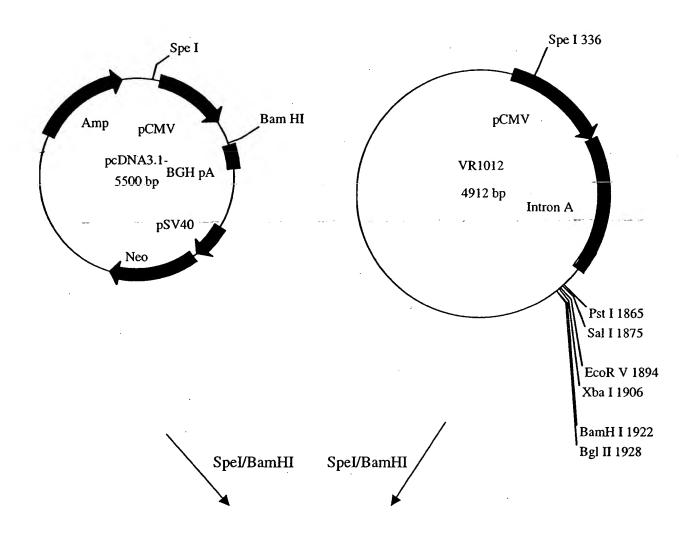
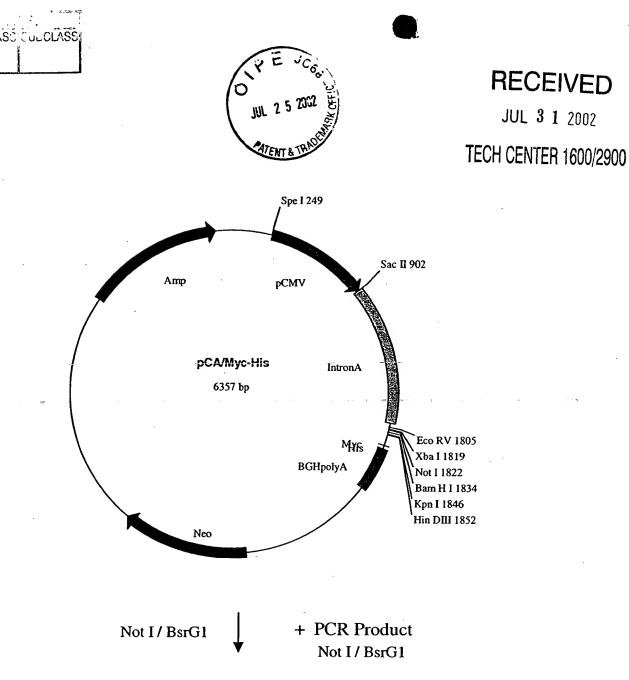


FIG. 3A



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FIG. 3B

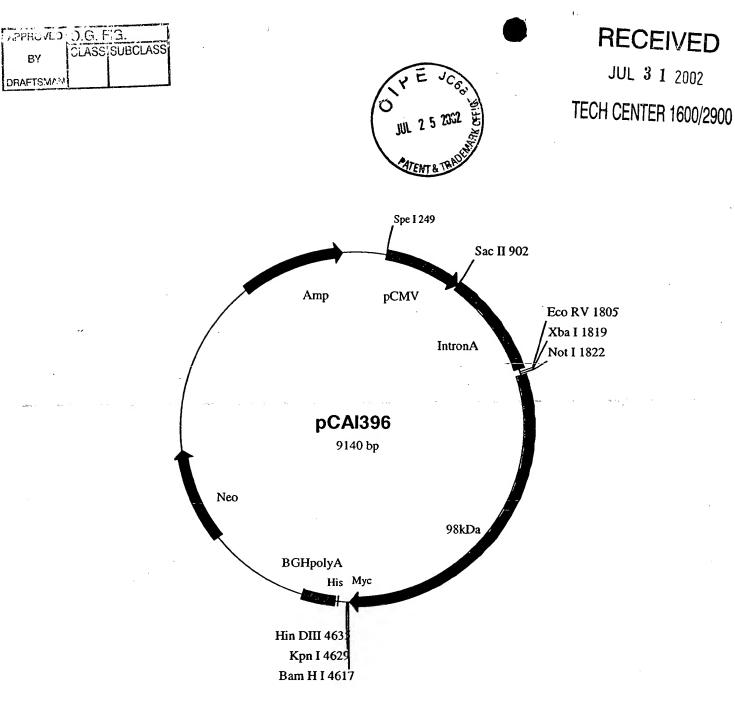


FIG. 3C

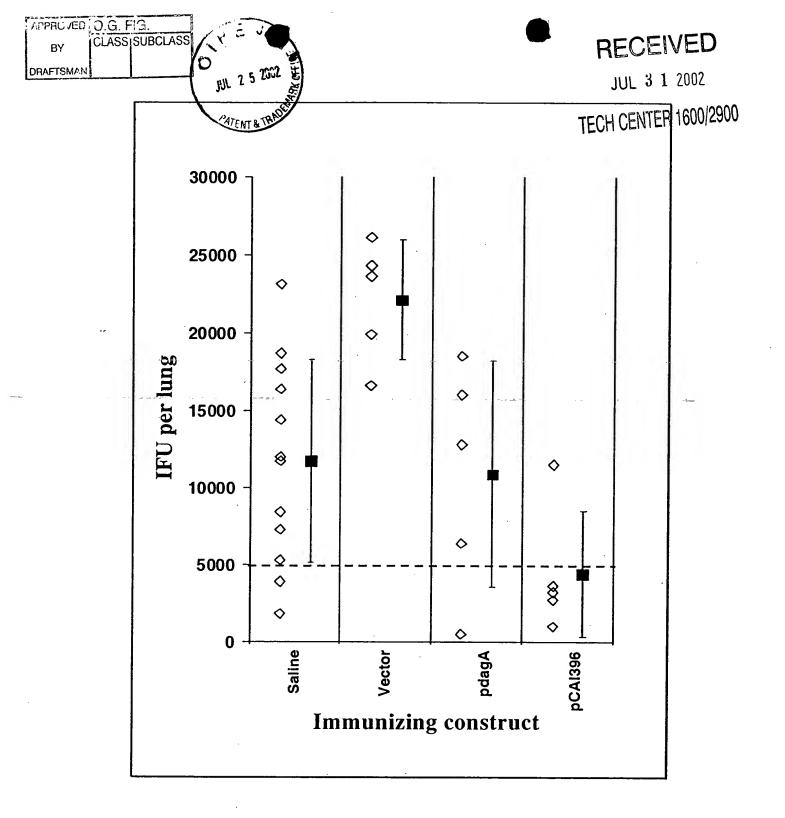


FIG. 4